

Title (en)

EXTREME-PRESSURE ADDITIVE, PROCESS FOR PRODUCING THE SAME, CUTTING FLUID, AND GRINDING FLUID

Title (de)

EXTREM-DRUCK-ZUSATZ, VERFAHREN ZU DESSEN HERSTELLUNG, SCHNEID- UND MAHLFLÜSSIGKEIT

Title (fr)

ADDITIF EXTREME PRESSION, PROCEDE DE PRODUCTION ASSOCIE, FLUIDE DE COUPE ET FLUIDE DE RECTIFICATION

Publication

EP 1116782 A4 20060419 (EN)

Application

EP 00946429 A 20000721

Priority

- JP 0004872 W 20000721
- JP 20607199 A 19990721

Abstract (en)

[origin: EP1116782A1] The present invention provides a sulfur-based extreme-pressure additive that is completely soluble in water without using a surfactant, and has satisfactory odor and hue. In addition, the present invention provides a cutting liquid and grinding liquid having superior defoaming property and rust preventive characteristics, while also having high load resistance and lubrication performance comparable to cutting oils and grinding oils of the prior art. The above objects are achieved by an extreme-pressure additive comprising the salt of a condensation product of a sulfurized hydroxy-unsaturated fatty acid, the condensation product having a sulfur content of 8 to 15% by weight (mass), color of 6 or less, and acid value of 80 to 200, and a grinding liquid comprising that extreme-pressure additive and water.

IPC 1-7

C10M 135/02; **C10N 30/06**; **C10N 40/22**; **C10M 159/12**; **C10M 173/02**; **C10M 177/00**

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

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- [X] DATABASE WPI Section Ch Week 199415, Derwent World Patents Index; Class A97, AN 1994-124265, XP002368616
- See references of WO 0105916A1

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EP 1116782 A1 20010718; **EP 1116782 A4 20060419**; AU 6021900 A 20010205; AU 765787 B2 20031002; CA 2344635 A1 20010125; CA 2344635 C 20090317; KR 100704876 B1 20070409; KR 20010088806 A 20010928; US 6413917 B1 20020702; WO 0105916 A1 20010125

DOCDB simple family (application)

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